

Title (en)
Engine start control system

Title (de)
Motorstartsteuerungssystem

Title (fr)
Système de contrôle du démarrage de moteur

Publication
EP 2644881 A3 20141210 (EN)

Application
EP 13158631 A 20130311

Priority
JP 2012070001 A 20120326

Abstract (en)
[origin: EP2644881A2] In the process of starting by a recoil starter, a maximum value detection section of an ECM detects a maximum value of pressure (basic atmospheric pressure) in an intake pipe detected by a pressure sensor, within a predetermined range of crank angle after activation of the ECM. An idling control unit gives feedback control on an ISC valve based on engine speed detected by an engine speed sensor, to thereby keep idling engine speed at a specified value. A correction unit corrects a basic atmospheric pressure detected by the maximum value detection section based on the duty ratio of the ISC valve in idling, and uses the result as the atmospheric pressure. A storage unit 9d stores a map in which the duty ratio of the ISC valve in idling is correlated with the amount of correction to be made on the basic atmospheric pressure.

IPC 8 full level
F02N 3/00 (2006.01); **F02N 11/08** (2006.01)

CPC (source: EP US)
F02N 3/00 (2013.01 - EP US); **F02N 11/0848** (2013.01 - EP US); **F02N 19/00** (2013.01 - US); **F02D 2200/704** (2013.01 - EP US); **F02N 11/04** (2013.01 - EP US); **F02N 2200/02** (2013.01 - EP US)

Citation (search report)
• [A] US 6445996 B1 20020903 - CORBEELS CAROL L [US], et al
• [A] EP 2362087 A1 20110831 - HONDA MOTOR CO LTD [JP]
• [A] US 2009198436 A1 20090806 - SASAKI YUICHI [JP]
• [A] DE 3914654 A1 19891116 - MITSUBISHI ELECTRIC CORP [JP], et al
• [A] EP 1433944 A1 20040630 - DENSO CORP [JP]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2644881 A2 20131002; **EP 2644881 A3 20141210**; **EP 2644881 B1 20171018**; JP 2013199915 A 20131003; JP 5821737 B2 20151124; US 2013247878 A1 20130926; US 9347417 B2 20160524

DOCDB simple family (application)
EP 13158631 A 20130311; JP 2012070001 A 20120326; US 201313846022 A 20130318